

	ATTY DOCKET NO.	APPLICATION NO.
	TPL-10203	10791.453
	APPLICANT(S)	
	Thomas	
FILING DATE		GROUP ART UNIT
March 2, 2004		374T 3748

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

5	Stanglmaier R., Ryan T. and Souder J., "HCCI Operation of a Dual-Fuel Natural Gas Engine for Improved Fuel Efficiency and Ultra-Low NOx Emissions at Low to Moderate Engine Loads", 2001, SAE Paper 2001-01-1897
5	"Engine Smoothness", 2000, www.fortunecity.com/silverstone/lancia/58/technical_school/engine/smoot
5	"Reciprotating Combustion Engine", 2001, http://reciprotating.com/default.htm
5	"Homogeneous-Charge Compression Ignition Stratified Charge Compression Ignition Engine Laboratory", 2000, http://www.ca.sandia.gov
5	"SVD - A Unique Engine Concept", Feb. 2000, http://www.saab.com/home/GLOBAL/en/pressreleases.xml
5	"Dynamics of the Swash Plate Mechanism" 1984, Proceedings of the 19845 Inter Compressor Engineering Conference
5	"New Engine Excites Many in Auto Industry", 1998, http://www.detnews.com/1998/autos/9805/20/052001.htm
5	Kawabata, Y., Nakagawa K. and Shoji, F., "Operating Characteristics of Natural Gas Fueled Homogeneous Charge Compression Ignition", 1998, Annual Technical Report Digest
5	"Dyna-Cam Revolutionary Engine Design", 2001, http://www.dynacam.com
5	Christensen, M., Johansson, B., and Einewall, P., "Homogeneous Charge Compression Ignition (HCCI) using isooctane, ethanol, and Natural Gas. A Comparison with Spark-Ignition Operation", 1997, SAE Paper 972874
5	Hultqvist, A., Christensen, M., and Johansson, P., "A Study of the Homogeneous Charge Compression Ignition Combustion Process by Chemiluminescence Imaging", 1999, SAE Paper 1999-01-3680
5	Gray A. and Ryan T., "Homogeneous Charge Compression Ignition (HCCI) of Diesel Fuel", 1997, SAE Paper 971676

XAMINER

RICHTER

DATE CONSIDERED

9-23-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and it considered. Include copy of this form with next communication to applicant.

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*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
S	Ziph B. and Meijer R., "Variable Stroke Power Control for Stirling Engines", 1981, SAE Paper 810088
S	Clucas D.M. and Raine J.K., "A New Wobble Drive with Particular Application in a Stirling Engine", 1994, IMechE vol. 208
S	Kontarakis G., Collings N. and Ma T., "Demonstration of HCCI Using Single-Cylinder, Four-stroke SI Engine with Modified Valve Timing", 2000 SAE 2000-01-2870
S	Pucher G., Gardener D., Bardon M. and Battista, V., "Alternative Combustion Systems for Piston Engines Involving Homogeneous Charge Compression Ignition Concepts - A Review of Studies Using Methanol, Gasoline, and Diesel Fuel", 1996, http://www.bcresearch.com
S	Gill G.S. and Freudenstein F., "Minimization of Inertia-Induced Forces in Spherical Four-bar Mechanisms. Part 2: Wobble-Plate Engines", 1983, ASME
S	Gill, G.S. and Freudenstein F., "Minimization of Inertia-Induced Forces in Spherical Four-bar Mechanisms. Part 1: The General Spherical Four-bar Linkage", 1983, ASME Vol 105/471
S	Hardenberg H. and Buhl H., "The Mercedes-Benz Om 403 VA - A Standard Production, Compression-Ignition, Direct-Injection Multifuel Engine", 1982, SAE Paper 820028
S	Hiroshi T. and Masaharu H., "Historical Review of the Wobbleplate and Scroll Type Compressors", 1990, SAE Paper 901737
S	Li J., Chae J., Lee S. and Jeong J., "Modeling the Effects of Split Injection Scheme on Soot and NOx Emissions of Direct Injection Diesel Engines by a Phenomenological Combustion Model", 1996, SAE Paper 962062
S	McLanahan J., "Barrel Aircraft Engines: Historical Anomaly or Stymied Innovation", 1998, SAE Paper 985597
S	Olsson J., Erlandsson O. and Johansson B., "Experiments and Simulation of a Six-Cylinder Homogeneous Charge Compression Ignition (HCCI) Engine", 2000, SAE Paper 2000-01-2867
S	"Erickson MCC FE-120", 1001, www.ericksonmotors.com/fe-120.htm

EXAMINER RICHTER	DATE CONSIDERED 9-23-04
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GROUP ART UNIT

3741 3748

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Miyagawa K. and Kavukawa H., "Development of the Swash Plate-Type Continuously Variable Displacement Compressor", 1998, SAE Paper 980290

Sadashivappa K., Singaperumal M. and Narayanasamy K., "On the Efficiency of the Axial Piston Motor Considering Piston Form Deviations", 1995, Pergamon 0957-4158 (95) 00074-7

Edge K.A. and Darling J., "The Pumping Dynamics of Swash Plate Piston Pumps", 1989, ASME Vol 111/307

Thieme L. and Allen D., "Testing of a Variable-Stroke Stirling Engine", 1986, 21st Intersociety Energy Conversion Engineering Conference, Paper 869104

Thieme L., "Initial Testing of a Variable STroke Stirling Engine", 1985, U.S. Dept. of Energy, NASA TM-86875

Au M., Girard J. and Hiltner J., "Homogeneous Charge Compression Ignition", 2001
<http://www.me.berkeley.edu/~mctai/hcci.html>

Christensen M., Hultqvist A. and Johansson B., "Demonstrating the Multi-Fuel Capability of a Homogeneous Charge Compression Ignition with Variable Compression Ratio", 1999, SAE Paper 1999-01-3679

Christensen M. and Johansson B., "Influence of Mixture Quality on Homogeneous Charge Compression Ignition", 1998, SAE Paper 982454

Christensen M., Johansson B., Amneus P., and Mauss F., "Supercharged Homogeneous Charge Compression Ignition (HCCI)", 1998, SAE Paper 980787

Kraft M., Maigaard P. and Mauss F., "Homogeneous Charge Compression Ignition Engine: A Simulation Study on the Effects of Inhomogeneities", 2000, ASME 2000 Spring Technical Conference

Kraft M., Maigaard P., Mauss F. and Christensen M., "Investigations of Combustion Emissions in a HCCI Engine Measurements and a New Computational Model 2000 28th International Symposium for Combustion", 4E12

Maricq M., Munoz R., Yang J. and Anderson R., "Sooting Tendencies in an Air Forced Direct Injection Spark-Ignition (DISI) Engine", 2001, SAE Paper 2001-01-0255

EXAMINER

RICHTEL

DATE CONSIDERED

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EXAMINER: If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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GROUP ART UNIT

3741 3748

EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Manring N., "Slipper Tipping within an Axial-Piston Swash-Plate Type Hydrostatic Pump", 1998, ASME FPST-Vol. 5

Jinqu N., Fukai I. and Kurihara M., "The Development of a Fixed-displacement Single-sided Swash Plate a/c Compressor", 2001, SAE Paper 2001-01-0971

Kaahaaina N., Simon A., Caton P. and Edwards C., "Use of Dynamic Valving to Achieve Residual-Affected Combustion", 2000, SAE Paper 2001-01-0549

Stanglmaier R. and Robert C., "Homogeneous Charge Compression Ignition (HCCI): Benefits, Compromises, and Future Engine Applications", 1999, SAE Paper 1999-01-3682

Thring R., "Homogeneous Charge Compression Ignition (HCCI) Engines", 1989, SAE Paper 892068

Fiveland S., and Assanis D., "A Four-Stroke Homogeneous Charge Compression Ignition Engine Stimulation for Combustion and Performance Studies", 2000, SAE Paper 2000-01-0332

Nishimura T., Umeda T., Tsuta T. and Fujiwara, M., "Dynamic Response Analysis of a Swash Plate Type Hydraulic Piston Pump", 1995, ASME/JSME Pressure Vessels and Piping Conference PVP-Vol. 300

Sheiretov T., Glabbeek-W. and Cusano C., "Simulative Friction and Wear Study of Retrofitted Swash Plate and Rolling Piston Compressors, 1995.

Taya T., Kobayashi H., Kawaguchi M. and Inagaki M., "10PC20 Swash Plate Type Variable Displacement Compressor for Automobile Air Conditioners", 1992, SAE Paper 920260

Ryan T. and Callahan T., "Homogeneous Charge Compression Ignition of Diesel Fuel", 1996, SAE Paper 961160

Tsuta T., Iwamoto T. and Umeda T., "Combined Dynamic Response Analysis of a Piston-Slipper System and Lubricants in Hydraulic Piston Pump", 1999, ASME PVP Vol. 396

Zhang X., Cho J., Nair S., Manring N., "Damping on the Swash Plate of an Axial-Piston Pump 2000", 2000, American Control Conference

EXAMINER

Richter

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9-23-04

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
S	WO 98/07973	2/26/98		F02M	7/00	✓	
S	WO 92/09798	6/11/92		F02B	75/04	✓	
S	WO 92/09799	6/11/92		F02B	75/04	✓	
S	WO 00/57044	9/28/00		F02B	57/08	✓	
S	EP 0 093 822		Europe	F 02B	57/10		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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RICHTER

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						YES	NO
S	EP 0 136 565		Europe	F02B	61/06	✓	
S	DE 3214516		Germany	F02B	71/00		✓
S	DE 3342108		Germany	F02B	75/32		✓
S	DE 4015867		Germany	F02B	57/00		✓
S	JP 580183825	1983	Japan	F02B	75/26		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
S	JP 55-23308	1980	Japan	F01B	3/04		✓
S	20203	1899	France				✓
S	33,686	1932	Britain			✓	
S	416,364	1910	France				✓
S	433,357	1911	France				✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER Richter	DATE CONSIDERED 9-23-04
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